No.



8000019

THE UNIVERD SHAMES OF AMIERIOA

Koninklijk Kweekbedrijf en Zandhandel D.J. van der Have B.V.

Talkereas, There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PERENNIAL RYEGRASS

'Bianca'

In Testimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of March in the year of our Lord one thousand nine hundred and eighty-two.

Susse Kerneth H. Eva. Acting

Plant Variety Protection O

P 70 1

| • | UNITED STATES DEPARTME AGRICULTURAL MARI LIVESTOCK, POULTRY, GRA | KETING SERVICE AIN & SEED DIVISION | 1 | No certificate for | FORM APPROVED OMB NO. 40-R382: plant variety protection may |
|----------------------|--|--|--|--|---|
| <u>INS</u> | PLICATION FOR PLANT VARIE TRUCTIONS: See Reverse. | TY PROTECTIO | N CERTIFICATE | be issued unless a has been received | completed application form |
| 1a. | TEMPORARY DESIGNATION OF VARIETY | 1b. VARIETY NAM | E | L | ICIAL USE ONLY |
| | HE 118 | Bianca | • | PV NUMBER | 3000019 |
| 2. | KIND NAME | 3. GENUS AND SPE | CIES NAME | FILING DATE | TIME A.M. |
| F | Perennial ryegrass | Lolium per | enne | 12-20-79 | 10:00 P.M. |
| 4. | FAMILY NAME (BOTANICAL) | | | FEE RECEIVED | DATE |
| ٠, | | 5. DATE OF DETE | HMINATION | \$ 500.00 | 12-20-79 |
| | Graminae | 1975 | . * | \$ 250.00 | 12-19-80 |
| 6. nk 1 | NAME OF APPLICANT(S) ijk Kweekbedrijf en Zaad- | | t and No. or R.F.D. No., Box 1 | City, State, and ZIP | 8. TELEPHONE AREA CODE AND NUMBE |
| e1 | D.J. van der Have B.V. | | AA Kapelle, Ne | etherlands | |
| 9. | IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh | RSON, FORM OF ip, association, etc.) | 10. IF INCORPORAT | PORATION | PORATION |
| ···· | Corporation | | Nether1a | | 8th March 1973 |
| 12. | NAME AND MAILING ADDRESS OF APP ALL PAPERS: Mr. Stan Rollin | | ATIVE(S), IF ANY, TO: | SERVE IN THIS APP | LICATION AND RECEIVE |
| | 6802 Orem Drive | | | | |
| | X 13A. Exhibit A, Origin and Bree X 13B. Exhibit B, Novelty Statem X 13C. Exhibit C. Objective Description | lent. | | | |
| 14a, | X 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Descr X 13D. Exhibit D, Additional Description of the Applicant (S) Specify That | ient. ription of the Variety cription of the Varie T SEED OF THIS VAR | y (Request form from ty. IETY BE SOLD BY VAI | Plant Variety Prote | |
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/DATE

INSTRUCTIONS

6/6/070000

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

Exhibit A.

Origin and breeding history of the variety.

Material was collected in England in 1967. The collected families were tested under lawn and playing field conditions. The best performing families were planted in a field as single plants at wide spacing. Plants with a matching appearance were selected for the composition of several experimental varieties, which were recombined in a randomized, replicated isolation block for the production of Syn-1 seed.

The experimental varieties were observed in lawn trials on clayand sandy soil. The experimental variety HE 118 proved to possess superior turf quality. If therefore was decided to produce enough breeders' seed for the anticipated need over the next 15 years and to release HE 118 under the varietal name Bianca.

No off-type plants or variants have been observed in the sexual reproduction and multiplication of this variety.

Re.: Ryegrass Application No. 8000019 Bianca.

Exhibit A. (Amendment)

No variants were observed in 2 generations of reproduction and the variety was stable during 2 generations of reproduction.

RYEGRASS APPLICATION NO. 800019, 'Bianca'

EXHLBIT A

Addendum

Bianca originates from a collection of material made in South-England. None of the collected material was from a public or commercial varieties.

EXHIBIT A

STAN ROLLIN SEED CONSULTANT 6802 OREM DRIVE LAUREL, MD. 20707 October 19,1981

Mr. Eldon E. Taylor

Examiner
Plant Variety Protection Office
L, P, G & S Division, AMS, USDA,
National Agricultural Library Bldg.,
Room 500
Beltsville, MD. 20705

Subject: Ryegrass Application No. 8000019, 'Bianca'

In reply to your letter of September 14, 1981, the number of clones from which 'Bianca' was derived was 6; however, the clones did not have any particular identification as they were selected from within the ecotype that was collected in England.

An amendment to Exhibit A is enclosed indicating that no variants were observed and the variety remained stable through two generations of reproduction.

Sincerely yours,

STAN ROLLIN

cc van der Have

PERENNIAL RYEGRASS BIANCA

Exhibit B Novelty statement

Novelty of BIANCA is based on the unique combination of the following characteristics:

- early maturity
- lighter green colour than MANHATTAN
- resistance to Corticium fuciforme

BIANCA is most similar to MANHATTAN, except that BIANCA has a 5-days earlier maturity which proved to be significant at the P = 0.01 level during 1977, 1978 and 1979 (data provided by the Government Institute for Variety Testing (RIVRO) at Wageningen, Netherlands):

Maturity (days):

| Year | BIANCA | MANHATTAN | LSD 0.01 |
|------|--------|-----------|----------|
| 1977 | 64 | 71 | 2.5 |
| 1978 | 58 | 63 | 2.8 |
| 1979 | 53 | 67 | 2.3 |

BIANCA differed significantly from MANHATTAN at the P = 0.05 level by a longer flag leaf in 1978 and 1979:

Flag leaf length (cm)

| Year | BIANCA | MANHATTAN | LSD _{0.05} |
|------|--------|-----------|---------------------|
| 1978 | 15.6 | 13.9 | 1.5 |
| 1979 | 14.8 | 13.4 | 1.2 |

BIANCA displayed a significant narrower flag leaf than MANHATTAN at the P = 0.01 level in 1977:

Flag leaf width (mm)

| Year | BIANCA | MANHATTAN | LSD _{0.01} |
|------|--------|-----------|---------------------|
| 1977 | 4.1 | 4.6 | 0.37 |

The spike of BIANCA was 4 cm shorter than that of MANHATTAN and this difference was significant at the P = 0.01 level in 1977:

Spike length (cm)

| Year | BIANCA | | MANHATTAN | LSD _{0.01} |
|------|--------|---|-----------|---------------------|
| 1977 | 14.6 | • | 18.6 | 1.4 |

 $PG \, \mathbb{R} \, \mathbb{R} \, \mathbb{R} \, \mathbb{R} \times \mathbb{R} \, \mathcal{G}$ province the sound of the pro-

FORM GR-470-36 (9-76)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF CULTIVARS RYEGRASS

| (<u>Lolium spp.</u>) | en e |
|--|--|
| NAME OF APPLICANT(S) | VARIETY NAME OR TEMPORARY DESIGNATION |
| Koninklijk Kweekbedrijf en Zaadhandel D.J. van der Haye. | Bianca |
| ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 1 | PARO NUMBER |
| 4420 AA Kapelle, Netherlands | 8000019 |
| Place the appropriate number that describes the varietal character of this variety in the boxes below number if either 99 or less or 9 or less. Descriptions of characters should represent those that are ty data should be for SPACED PLANTS. Give additional description for all characteristics that cannot petrinent comparative trial and evaluation data. | pical for the variety. Ranges may be given also. Measured |
| 1. SPECIES: 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. PERENNI | E (perennial) 3 = L. RIGIDUM (includes Wimmera) |
| 2 4 = HYBRID (of species) 5 = OTHER (Species) | ecify) |
| 2. PLOIDY: | |
| 1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Spe | e cify). In the weather were also all the atomic and weath all elsewine. |
| 3. DURATION: | |
| 3 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years) | 3 = PERENNIAL (more than 4 years) |
| STANDARD CULTIVARS | |
| 1 = GULF 2 = WIMMERA 62 3 = LINN 6000 5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATTA | MAKA 188 (1951) |
| 4. MATURITY (50% HEADED) Use standards from above for comparison: Test ar | ea: 52 ^o NL Wageningen Netherlands |
| 5 1 = VERY EARLY 3 = EARLY 0 5 DAYS EARLIER THAN | |
| 5 = MEDIUM 7 = LATE 9 = VERY LATE DAYS LATER THAN | · • • • • • • • • • • • • • • • • • • • |
| 5. MATURE PLANT HEIGHT (Use standard cultivars from above) : | |
| 0 7 3 CM. HIGH CM. SHORTER THAN | |
| 0 0 1 CM. TALLER THAN | |
| 6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use st | andard cultivars from above for comparison: |
| 0 8 0 PERCENT DAMAGE OF APPLICATION CULTIVAR | Constant Contract Seasons (Season) |
| 0 7 5 PERCENT DAMAGE OF 7 STANDARD CULTIVAR | |
| 7. TURF DENSITY Use standard cultivars from above: | - |
| TILLERS PER 100 SQ. CM. | UNESS CONTENANTE PROPERYSONS |
| LESS TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVA | AR · |
| MORE TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVA | AR |
| 8. FLAG LEAF (at full growth) Use standard cultivars from above: | 0 + 01/16 (1885) |
| a liana da la muna ali mendi sensi sensi manen menengan menengan pendangan pendangan dali ikalah men | ###################################### |
| CM. SHORTER THAN STANDARD CULTIVA | 1 = DEFLEXED FLAG LEAF AT 3 = RECURVED BOOT STAGE: 5 = HORIZONTAL |
| 0 1. 2 CM. LONGER THAN | 7 = SEMI-ERECT 9 = ERECT |
| 1 1 1 1 | the control of the control of the control of the control of the production of the control of the |

14. SEED:

1. 7 8 MG. PER 1,000 SEED

% PLANTS WITH UPRIGHT GROWTH HABIT

5 2 4 MM TOTAL LENGTH OF 10 SEEDS

1 2 7 MM. TOTAL WIDTH

WALLE FOR A SECURITION OF TRANSPORTED THE LANGUAGE

| 15. DISEASE (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT): | | | |
|---|--|--|--|
| 6 CROWN RUST (Puccinia coronata) DOLLAR | SPOT (Sclerotinia) BROWN PATCH (Rhizoctonia) | | |
| LEAF SPOT (Melminthosporium) MILDEW | OTHER (Specify) | | |
| SNOW MOLD (Typhula) 6 RED THE | READ (Corticium) | | |
| 16. INSECT (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, | | | |
| 8 = HIGHLY RESISTANT): | | | |
| 0 (Specify) | | | |
| 17. GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY CODE NUMBER IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE (1 = LESS THAN, 2 = SAME AS, 3 = MORE ERECT, MORE RESISTANT, DENSER, MORE PERSISTENT, DARKER OR GREATER HEIGHT.): | | | |
| RESEMBLANCE CHARACTER | SIMILAR VARIETY | | |
| 3 PLANT HABIT (erectness) | 7 1 = GULF | | |
| 2 TILLERING | 7 2 = WIMMERA 62 | | |
| 1 WINTER HARDINESS | 7 3 = LINN | | |
| HIGH TEMP, STRESS RESISTANCE | 4 = PELO | | |
| 2 TURF PERSISTENCE | 7 5 = NORLEA | | |
| 1 PLANT COLOR | 7 6 = ABERYSTWYTH S-23 | | |
| VERTICAL SEEDLING GROWTH RATE | 7 = MANHATTAN | | |
| CROWN DENSITY | 8 = PENNFINE | | |
| MOWER SHREDDING RESISTANCE | | | |
| 18. GIVE AREA OF ADAPTATION AND INTENDED USE: | | | |
| 19. GIVE AREA TEST RESULTS PRESENTED FROM: | | | |
| COMMENTS: | | | |

The southern boundary of the NE cool humid region, e.g. Oklahoma, Central Missouri to Central Virginia.

In the Western parts: Western Washington, Oregon and Upper California.
For overseeding the southern States.

Exhibit D.

Additional Description of the Variety.

Bianca is especially suited for use under lawn conditions in contrast with Manhattan which is better adapted to playing field conditions.

RYEG

PV No. 8000019 (Bianca)

An excess seed sample of this variety was returned to the PVP Office by the National Seed Storage Laboratory. The excess seed was destroyed by PVPO personnel on 111 15 1994.